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Differences of R.A. and N.P.D. of Uranus and 8 Libræ and α Libræ about the time of the conjunction in 1894 April, observed with the Transit-circle at the Royal Observatory, Greenwich.

(*Communicated by the Astronomer Royal.*)

Comparisons with 8 Libræ.

Day. 1894.	Observer.	♅−✳ R.A.	Assumed R.A. of ✳.	Apparent R.A. of ♅.	Secs. of Tab. R.A.	Error of Tab. R.A.	♅−✳ N.P.D.	Assumed N.P.D. of ✳.	Apparent N.P.D. of ♅.	Secs. of Tab. N.P.D.	Error of Tab. N.P.D.
		m s	h m s	h m s	s	s	′ ″	° ′ ″	° ′ ″	″	″
Apr. 18	B.	+1 35·10	14 44 51·27	14 46 26·37	26·74	+0·37	+4 50·70	105 33 38·92	105 38 29·62	30·5	+0·88
21	A. C.	+1 6·11	51·31	45 57·42	57·82	+0·40	+2 40·85	39·02	36 19·87	20·7	+0·83
27	C. D.	+0 7·03	51·38	44 58·41	58·74	+0·33	...	...	...	...	...
30	A. C.	−0 23·00	51·42	44 28·42	28·79	+0·37	−4 0·65	39·42	29 38·77	40·5	+1·73

Comparisons with α Libræ.

Apr. 18	B.	+1 23·67	14 45 2·71	14 46 26·38	26·74	+0·36	+2 8·65	105 36 19·90	105 38 28·55	30·5	+1·95
21	A. C.	+0 54·69	2·75	45 57·44	57·82	+0·38	+0 1·36	20·05	21·41	20·7	−0·71
30	A. C.	−0 34·49	2·86	44 28·37	28·79	+0·42	−6 41·30	20·50	39·20	40·5	+1·30

The assumed mean places of the stars for 1894·0 are as follows :—

8 Libræ	R.A. 14 h 44 m 49·36 s	N.P.D. 105° 33′ 23″·42	Authority, Greenwich Ten Year Catalogue, 1880.
α „	„ 14 45 0·79	„ 105 36 4·50	„ „ Five Year Catalogue of Fundamental Stars, 1890.

In all cases the stars and planet were observed in the same position of the instrument.
The N.P.D differences have been corrected for refraction and parallax.
The tabular places for *Uranus* are those given in the *Nautical Almanac*.
The initials A. C., B., C. D. are those of Mr. Crommelin, Mr. Bryant, and Mr. Davidson, respectively.

Royal Observatory, Greenwich:
1894 *May* 9.

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Observations of Gale's Comet (b 1894), made at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

The observations were made with the East, or Sheepshanks, equatorial, aperture 6·7 inches, by taking transits over two cross-wires at right angles to one another, and each inclined 45° to the parallel of declination. Magnifying power, 55.

Greenwich Mean Solar Time. 1894.	d	h	m	s	Observer.	✱−★ RA. m	s	Corr. for Refraction. s	Log. factor of Parallax.	✱−★ N.P.D. ′	″	Corr. for Refraction. ″	Log. factor of Parallax. ″	No. of Comps.	Apparent R.A. h	m	s	Apparent N.P.D. °	′	″	Comp. ★
May	1	8	47	8	A. C.	−0	9·00	−0·02	9·4850	+ 2	18·2	+0·6	0·8765	2	7	53	42·97	105	24	25·6	*a*
	1	8	52	58	B.	−0	5·62	−0·02	9·4926	+ 1	14·0	+0·4	0·8748	4	7	53	46·35	105	23	21·2	*a*
	4	8	42	29	,,	−0	9·11	+0·01	9·4252	− 1	55·5	−0·1	0·8511	6		...			...		*b*
	7	9	4	32	,,	+0	5·93	+0·02	9·4338	−10	31·6	−0·2	0·8030	7	8	57	43·35	82	35	28·4	*c*
	7	9	24	52	,,	+0	44·47	−0·03	9·4661	+15	44·5	+0·4	0·8061	5	8	57	51·20	82	32	50·1	*d*
	9	10	8	45	C. D.	+0	57·99	0·00	9·5200	− 0	23·3	0·0	0·7845	8	9	15	0·53	76	37	23·7	*e*
	9	10	12	33	A. C.	+0	59·59	0·00	9·5240	− 0	48·1	−0·1	0·7856	1	9	15	2·13	76	36	58·8	*e*
	10	9	0	5	C. D.	−1	9·81	0·00	9·4170	+ 1	24·6	+0·1	0·7428	4	9	22	23·88	74	11	17·8	*f*

Notes.

The observations are corrected for refraction, but not for parallax. They are also corrected for the error of inclination of the wires and for the motion of the comet.

May 7.—Stellar nucleus seen south of centre of nebulosity; slight elongation of latter towards N.

The initials A. C., B., C. D., are those of Mr. Crommelin, Mr. Bryant, and Mr. Davidson, respectively.

Comparison Stars.

	Star's Name.	R.A. 1894·0. h	m	s	N.P.D. 1894·0. °	′	″	Authority.
a	O.A. (S.), 7742	7	53	51·72	105	22	1·5	Oeltz. Arg. (S.), and Schjellerup.
b	B.D. −3°, 2390	8	28	22·6	93	17·8		Bonn, Observations, Vol. viii.
c	W.B. VIII., 1423	8	57	36·58	82	45	59·7	Glasgow, 1870, Paris and Göttingen Catalogues.
d	W.B. VIII., 1414	8	57	5·94	82	17	4·9	Glasgow, 1870, Paris and Armagh, 1875, Catalogues.
e	W.B. IX., 235	9	14	1·58	76	37	48·1	Paris Catalogue.
f	W.B. (2) IX., 450	9	23	32·65	74	9	54·7	Weisse's Bessel (2).

Royal Observatory, Greenwich: 1894 *May* 11.

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